

ABSTRACT OF THE INVENTION

The present invention concerns a flame retardant (FR) nonwoven fabric useful in household goods and particularly for mattresses. The nonwoven fabric comprises at least one of FR rayon fiber, FR acrylic fiber, FR melamine fiber, FR polyester fiber, FR polyolefin fiber, or FR resin coated fiber and optionally synthetic and/or natural fiber mechanically bound together by a needlepunch process. From this nonwoven fabric, many household goods such as drapes, curtains, rugs, bedding and particularly mattresses may be constructed. The present invention also contemplates a mattress constructed from the nonwoven fabric comprising FR rayon fiber, FR acrylic fiber, FR melamine fiber, FR polyester fiber, FR polyolefin fiber, or FR resin coated fiber. The mattress from this construction passes the California Test Bulletin 603 stringent conditions for mattresses used in residential places. Preferably the nonwoven fabric has a batt weight of at least 2.25 oz./sq. yd. and preferably between 2.25 oz./sq. yd. and 20 oz./sq. yd.